EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	61	engineering adj (system or objects! or information) same ((runtime or (run adj time)) adj system)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 13:36
L2	0	1 and automationbd	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 13:31
L3	43	1 and automation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 13:36
L4	76	engineering same ((runtime or (run adj time)) adj system)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 13:38
L5	53	4 and automation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 13:39
L6	46	automation same ((runtime or (run adj time)) adj system)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 13:44
L7	36	6 and engineering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 13:39
L8	193	automation and ((runtime or (run adj time)) adj system) and engineering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 13:45
L9	13	8 and (automation and ((runtime or (run adj time)) adj system) and engineering) with object	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 13:48

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L10	118	8 and (read or reading) and (creat$6 or generat$6) and identif$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 13:48

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	204	engineering adj system same object	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:21
L2	8035	automation same object	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:22
L3	54	1 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:06
L4	97	(engineering adj system) same objects!	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:22
L5	44588	automation same (system or objects!)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:23
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L7	22	4 and reference with object	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:26
L8	0	7 and representative with engineering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:27
L9	0	7 and representative same engineering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:36

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L10	4	7 and representative same system	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:28
L11	4	7 and representative	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:28
L12	175	6 and "700"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:44
L13	96	12 and engineering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:41
L14	3	6 and (read or reading) with engineering with device	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:42
L15	22	5 and (read or reading) with engineering with device	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:44
L16	275	(read or reading) with engineering with device	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:44
L17	9	16 and "700"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:45
L18	3	16 and "709"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:45
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EAST Search History

L20	3	16 and "707"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:46

DOCUMENT-IDENTIFIER: US 20010037161 A1

TITLE: Method for controlling technical processes

---------- KWIC ---------

Current US Classification, US Primary Class/Subclass - CCPR (1):
700/96

Current US Classification, US Secondary Class/Subclass - CCSR (1):
700/104

Current US Classification, US Secondary Class/Subclass - CCSR (2):
700/97

Summary of Invention Paragraph - BSTX (6):
[0004] The **reference** WO 91 19237 and a document by Hilding Elmqvist entitled: "A Uniform Architecture For Distributed **Automation**" (Advances in Instrumentation and Control, U.S., Instrument Society of America, Research Triangle Park, Vol. 46,

Summary of Invention Paragraph - BSTX (20):
[0017] The project planning/programming advantageously takes place on an engineering **system,** while the software application is executed on a **runtime system**. The project planning or programming is consequently independent of the execution of the respective actual software application.

Brief Description of Drawings Paragraph - DRTX (5):
[0022] FIG. 3 illustrates a schematic representation of the development environment for the project planning or programming of the MC application on an engineering **system** and for the running of the planned/programmed MC application on a **runtime system** in accordance with an exemplary embodiment of the present invention.

Detail Description Paragraph - DETX (4):
[0028] Referring to the drawings, FIG. 1 illustrates a movement control software **system,** hereinafter "MC software **system,**" comprising at least one engineering **system** ES (offline) and a **runtime system** RS (online). The ES is used by the user to create a movement control application, referred to hereinafter as "MC application" MCA. The RS executes the MCA. The creation of a MCA involves the system configuration, the creation of the user programs at the high-level language level and the transfer of this information into a form which can be executed internally in the RS (executable). The RS executes the

executable.

Detail Description Paragraph - DETX (24):
[0048] Interfaces in the **runtime system** RS (RS interfaces) are fixed in the movement control **runtime system** directly. The interfaces are managed and addressed in the engineering system ES via type codes, so that their interconnection is possible.

Detail Description Paragraph - DETX (27):
[0051] The execution of an actually planned software structure takes place in the **runtime system** RS.

Detail Description Paragraph - DETX (28):
[0052] The most important basic **objects** BO are the feedback controller **objects** FCO, the command variable **objects** CVO and the program processing **objects** PPO, these **objects** being presented in more detail below with **reference** to FIG. 2, beginning with the program processing **object** PPO.

Detail Description Paragraph - DETX (42):
[0066] In the engineering system ES, an actual control solution corresponding to the respective requirements of the client is configured and programmed using corresponding tools VEW, KON, PRG (management, configuration, programming), the commissioning being supported by further tools INB, MON, DEB (commissioning, monitoring, debugging). The execution of an actually planned software structure with the associated user program takes place in the **runtime system** RS.

Detail Description Paragraph - DETX (43):
[0067] The engineering **system** ES accordingly permits the handling of a movement control application (MC application) MCA in engineering terms and, in addition, also the representation of the **runtime system** RS during the engineering (from project planning through to commissioning).

Detail Description Paragraph - DETX (44):
[0068] For this purpose, the engineering **system** ES has access to an image of all the basic **objects** BO that are executable in the **runtime system** RS. Accordingly, at least the aforementioned feedback controller objects FCO, command variable objects CVO, program processing objects PPO, driver objects DRO and system manager objects SMO are provided as basic object classes.

Detail Description Paragraph - DETX (45):
[0069] Both in the engineering **system** ES and in the **runtime system** RS there exists, via the hardware HW-(programming unit or personal computer HW1 for the engineering **system** ES, control hardware HW2 for the **runtime system** RS), a complete **runtime system** with an operating **system** BS, tools for **system** management and basic **objects** BO.

Detail Description Paragraph - DETX (48):
[0072] The overall **system** comprises a combination of a **runtime system,** with

a control core as a distributable control operating **system, and an engineering system,** which permits the graphic programming of the **automation** project via a corresponding interface.

Detail Description Paragraph - DETX (52):

[0076] **Reference** is made below to FIG. 6, in which an **object** structure of a tubular-bag machine is shown, the following procedure being realized:

Claims Text - CLTX (1):

1. A method for project planning and/or programming of a software application for controlling and/or monitoring a technical process, said method comprising: using a plurality of instantiatable basic object types of said software application, said instantiatable basic objects comprising at least feedback controller objects for various feedback controller functions, command variable objects as command variable generators, program processing objects for running predeterminable user programs, driver objects for adapting control at interfaces of the various hardware modules and system manager objects as an interface with respect to the operating system, and/or run-up objects for storing the executable; using addressable interfaces for parameterizing and interconnection, said object types being part of a firmware of a **runtime system**; and at least one program processing object type and at least one driver object type being provided as said instantiatable basic object type, said at least one program processing object type processing a user-definable program and said driver object type driving process hardware.

Claims Text - CLTX (6):

6. The method as claimed in claims 1, wherein said project planning is implemented on an engineering **system** and wherein said software application is executed on a **runtime system**.

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	204	engineering adj system same object	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:47
L2	8035	automation same object	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:22
L3	54	1 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:06
L4	97	(engineering adj system) same objects!	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:22
L5	44588	automation same (system or objects!)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:23
L6	1845	5 and (runtime or (run adj time)) with (system or objects! or automation)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:49
L7	22	4 and reference with object	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:26
L8	0	7 and representative with engineering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:27
L9	0	7 and representative same engineering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:36

EAST Search History

L10	4	7 and representative same system	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:28
L11	4	7 and representative	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:28
L12	175	6 and "700"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:48
L13	96	12 and engineering	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:41
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L15	22	5 and (read or reading) with engineering with device	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:44
L16	275	(read or reading) with engineering with device	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:44
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L18	3	16 and "709"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:45
L19	5	16 and "717"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:45

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L20	3	16 and "707"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:46
L21	5723	engineering same automation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:52
L22	721	21 and reference with (engineering or automation or system or object)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:48
L23	123	22 and "700"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:49
L24	14	23 and (runtime or (run adj time)) with (system or objects! or automation)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:49
L25	14	24 and engineering and automation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 12:52

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Automation system - Patent 20020082720

A method for operating an **automation system** according to claim 1, wherein the **engineering system** and/or **runtime** system is produced by the following steps: ...
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PROVISION OF INFORMATION IN AN AUTOMATION SYSTEM - Patent EP1442340

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The **automation system** according to claim 1 wherein the data management unit is integrated in the **engineering system**. 3. The **automation system** according to ...
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Automation system - Patent 20020082720
A method for operating an **automation system** according to claim 1, wherein the **engineering system** and/or **runtime system** is produced by the following steps: ...
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Automation system for merging automation components - Patent 6757568
The present invention relates to an **automation system** in which a ... specific interfaces incorporation of **engineering system** and **runtime system** (RS) into ...
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The Simotion system consists of an **engineering system** called "Simotion Scout" which runs under Windows on commercially available PCs, a **runtime system** which ...
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1 Draft report on requirements for a common prototyping system

R. P. Gabriel

March 1989 **ACM SIGPLAN Notices**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(4.76 MB) Additional Information: full citation, citings, index terms

2 An asynchronous integration and event detection algorithm for simulating multi-agent hybrid systems

Joel M. Esposito, Vijay Kumar

October 2004 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 14 Issue 4

Publisher: ACM Press

Full text available: pdf(299.01 KB) Additional Information: full citation, abstract, references, index terms

A simulation algorithm is presented for multi-agent hybrid systems---systems consisting of many sets of nonsmooth differential equations---such as systems involving multiple rigid bodies, vehicles, or airplanes. The differential equations are partitioned into coupled subsystems, called "agents"; and the conditions which trigger the discontinuities in the derivatives, called "events", may depend on the global state vector. Such systems normally require significant computational resources to si ...

Keywords: Event detection, hybrid systems, multi-agent systems, numerical integration

3 Conspectus of software engineering environments

Hans-Ludwig Hausen, Monika Müllerburg

March 1981 **Proceedings of the 5th international conference on Software engineering ICSE '81**

Publisher: IEEE Press

Full text available: pdf(984.97 KB) Additional Information: full citation, abstract, references, citings, index terms

Aspects of software engineering environments are discussed, namely motivations, life cycle models, concepts, methods, description means and tools. Some general conclusions about these aspects as well as about the area of software engineering environments are drawn. The paper is based on a study of selected software engineering environments.

4 Reusable software components
Trudy Levine
July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4
Publisher: ACM Press
Full text available: pdf(2.45 MB) Additional Information: full citation, index terms

5 Intelligent user interfaces for correspondence domains (panel session): moving IUIs off the desktop
Christopher A. Miller, Christine Mitchell, Patty Lakinsmith, Reiner Onken, Robin Penner, Valerie Shalin
January 2000 **Proceedings of the 5th international conference on Intelligent user interfaces IUI '00**
Publisher: ACM Press
Full text available: pdf(718.53 KB) Additional Information: full citation, abstract, references, index terms

This paper is about the elicitation of the requirements for an intelligent interface for a software test development environment that will accommodate the physically challenged (PC). This research explores the use of eye-tracking mechanisms and digital manipulative user interfaces that are especially enhanced for the PC. In addition these devices provide assistance for the knowledge elicitation phase for an Intelligent User Interface to such an environment. It was never a stated objective o ...

6 The role of debugging within software engineering environments
Monika A. F. Müllerburg
March 1983 **ACM SIGSOFT Software Engineering Notes , ACM SIGPLAN Notices , Proceedings of the symposium on High-level debugging SIGSOFT '83**, Volume 8 , 18 Issue 4 , 8
Publisher: ACM Press
Full text available: pdf(783.98 KB) Additional Information: full citation, abstract, references

Programming environments (PEs) support a single programmer developing small- to medium-scale programs, whereas software development support systems and software engineering environments (SE^2s) support whole project teams, developing Large-scale software. There is no reason to believe that one and only one support system may exist. The usefulness of one or the other depends on the particular situation of software development.Debugging is distinguished from testing and defined not only ...

Keywords: Static debugging, dynamic debugging, programming environment, software development support system, software engineering environment, static analysis, testing, validation

7 Object oriented analysis transformation in Ada for real-time systems with resource constraints
Jonathan Preston, Steve Hufnagel
June 1993 **Proceedings of the tenth annual Washington Ada symposium on Ada: Ada's role in software engineering WADAS '93**
Publisher: ACM Press
Full text available: pdf(636.01 KB) Additional Information: full citation, references

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1 MERLIN: semi-order-independent hierarchical buffered routing tree generation using local neighborhood search

Amir H. Salek, Jinan Lou, Massoud Pedram

June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation DAC '99**

Publisher: ACM Press

Full text available: pdf(211.75 KB) Additional Information: full citation, references, citings, index terms

2 Automating parallel simulation using parallel time streams

Victor Yau

April 1999 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 9 Issue 2

Publisher: ACM Press

Full text available: pdf(194.69 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a package for parallel steady-state stochastic simulation that was designed to overcome problems caused by long simulation times experienced in our ongoing research in performance evaluation of high-speed and integrated-services communication networks, while maintaining basic statistical rigors of proper analysis of simulation output data. The package, named AKAROA, accepts ordinary (nonparallel) simulation programs, and alll further stages of stochastic simulation shou ...

Keywords: distributed simulation, interprocess communication, output analysis methodology, parallel processing, parallel simulation, parallel time streams, spectral analysis, speedup

3 Unifying heterogeneous information models

Narinder Singh

May 1998 **Communications of the ACM**, Volume 41 Issue 5

Publisher: ACM Press

Full text available: pdf(336.15 KB) Additional Information: full citation, references, citings, index terms, review

4

A DSM design flow: putting floorplanning, technology-mapping, and gate-placement together

Amir H. Salek, Jinan Lou, Massoud Pedram

May 1998 **Proceedings of the 35th annual conference on Design automation DAC '98**

Publisher: ACM Press

Full text available: pdf(446.23 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an integrated design flowwhich combines floorplanning, technology mapping, andplacement using a dynamic programming algorithm. Theproposed design flow consists of five steps: maximum treesub-structure formation, levelized cluster tree construction,minimum area implementation using 2-D shape functions,critical path identification, and repeated application ofsimultaneous floorplanning, technology mapping and gateplacement along the timing critical paths. Experimentalresults obt ...

5 Requirements interaction management

William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov

June 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 2

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms

Requirements interaction management (RIM) is the set of activities directed toward the discovery, management, and disposition of critical relationships among sets of requirements, which has become a critical area of requirements engineering. This survey looks at the evolution of supporting concepts and their related literature, presents an issues-based framework for reviewing processes and products, and applies the framework in a review of RIM state-of-the-art. Finally, it presents seven researc ...

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis and design, composite system, deficiency driven design, dependency analysis, distributed intentionality, interaction analysis, software cost reduction (SCR)., system architecture, system specification, viewpoints

6 Report from the first annual workshop on software architectures in product line acquisitions

Edward A. Addy

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(977.30 KB) Additional Information: full citation, index terms

7 Draft report on requirements for a common prototyping system

R. P. Gabriel

March 1989 **ACM SIGPLAN Notices**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(4.76 MB) Additional Information: full citation, citings, index terms

8 Special issue: AI in engineering

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

9 Synthesis of application-specific multiprocessor architectures

Shiv Prakash, Alice C. Parker

June 1991 **Proceedings of the 28th conference on ACM/IEEE design automation DAC '91**

Publisher: ACM Press

Full text available: pdf(680.98 KB) Additional Information: full citation, references, citings, index terms

10 The flexible Ada simulation tool (FAST) and its extensions

Michael L. Samuels, James R. Spiegel

December 1987 **Proceedings of the 19th conference on Winter simulation WSC '87**

Publisher: ACM Press

Full text available: pdf(936.32 KB) Additional Information: full citation, abstract, references, citings, index terms

Discrete-event simulation is often considered the method of last resort because of the excessive time needed to develop and debug models, as well as run experiments and analyze results. The Flexible Ada Simulation Tool (FAST), is designed to alleviate these problems through extensive use of Ada design methodology (Ada is a registered trademark of the U.S. Government, Ada Joint Program Office). Object-oriented design permits rapid expansion of language features, including interfaces to data ...

11 Algorithmic aspects of hardware/software partitioning

Péter Arató, Zoltán Ádám Mann, András Orbán

January 2005 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(253.87 KB) Additional Information: full citation, abstract, references, citings, index terms

One of the most crucial steps in the design of embedded systems is hardware/software partitioning, that is, deciding which components of the system should be implemented in hardware and which ones in software. Most formulations of the hardware/software partitioning problem are NP-hard, so the majority of research efforts on hardware/software partitioning has focused on developing efficient heuristics.This article considers the combinatorial structure behind hardware/software partitioning. Two si ...

Keywords: Hardware/software partitioning, graph algorithms, graph bipartitioning, hardware/software codesign, optimization

12 Frame-based method for customizing generic software architectures

Yu Chye Cheong, Stanislaw Jarzabek

May 1999 **Proceedings of the 1999 symposium on Software reusability SSR '99**

Publisher: ACM Press

Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

Keywords: domain engineering, frame technology, generic software architectures, reuse, system families

13 A comparison of automatic parallelization tools/compilers on the SGI origin 2000
Michael Frumkin, Michelle Hribar, Haoqiang Jin, Abdul Waheed, Jerry Yan
November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '98**
Publisher: IEEE Computer Society
Full text available: html(87.49 KB) Additional Information: full citation, abstract, references

Porting applications to new high performance parallel and distributed computing platforms is a challenging task. Since writing parallel code by hand is time consuming and costly, porting codes would ideally be automated by using some parallelization tools and compilers. In this paper, we compare the performance of three parallelization tools and compilers based on the NAS Parallel Benchmark and a CFD application, ARC3D, on the SGI Origin2000 multiprocessor. The tools and compilers compared inclu ...

Keywords: CAPTools, HPF, NAS parallel benchmarks, SGI Origin200, automatic parallelization, parallelization tools, parallelizing compilers

14 Classics in software engineering
January 1979 Divisible Book
Publisher: Yourdon Press
Full text available: pdf(22.45 MB) Additional Information: full citation, cited by, index terms

15 Post-layout timing-driven cell placement using an accurate net length model with movable Steiner points
Amir H. Ajami, Massoud Pedram
January 2001 **Proceedings of the 2001 conference on Asia South Pacific design automation ASP-DAC '01**
Publisher: ACM Press
Full text available: pdf(116.80 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a new algorithm for timing-driven cell placement using the notion of movable Steiner points that capture the net topology. The proposed algorithm improves the timing closure at the backend of the EDA design flow. Unlike conventional flows that perform placement and routing in two separate steps and use rough estimates of the net lengths during placement, our algorithm uses accurate net lengths by considering the net topologies during the Elmore delay calculation step and ...

16 Module selection for pipelined synthesis
Rajiv Jain, Alice Parker, Nohbyung Park
June 1988 **Proceedings of the 25th ACM/IEEE conference on Design automation DAC '88**
Publisher: IEEE Computer Society Press
Full text available: pdf(622.33 KB) Additional Information: full citation, abstract, references, citings, index terms

Module selection is one of the many functions which have to be performed during behavioral synthesis of pipelined designs. Module selection is the process of choosing the types of modules (e.g. carry-look-ahead adder) to implement each operation (e.g. addition). In this paper, we give a limited solution to the module selection problem for

pipelined designs. A model for estimating area-time tradeoffs [3] for pipelined designs is used to formulate the module selection problem, and an overview ...

17 High level synthesis of pipelined instruction set processors and back-end compilers
I.-J. Huang, A. M. Despain
July 1992 **Proceedings of the 29th ACM/IEEE conference on Design automation DAC '92**
Publisher: IEEE Computer Society Press
Full text available: pdf(758.78 KB) Additional Information: full citation, references, citings, index terms

18 Safe BDD minimization using don't cares
Youpyo Hong, Peter A. Beerel, Jerry R. Burch, Kenneth L. McMillan
June 1997 **Proceedings of the 34th annual conference on Design automation DAC '97**
Publisher: ACM Press
Full text available: pdf(89.24 KB) Additional Information: full citation, abstract, references, citings, index terms

In many computer-aided design tools, binary decision diagrams(BDDs) are used to represent Boolean functions. To increase theefficiency and capability of these tools, many algorithms have beendeveloped to reduce the size of BDDs. This paper presents heuristicalgorithms that minimize the size of BDDs representing incompletelyspecified functions by intelligently assigning don't cares tobinary values. The traditional algorithm, restrict [Verification of Synchronous Sequential Machines Based on Symbo ...

19 A simultaneous routing tree construction and fanout optimization algorithm
Amir H. Salek, Jinan Lou, Massoud Pedram
November 1998 **Proceedings of the 1998 IEEE/ACM international conference on Computer-aided design ICCAD '98**
Publisher: ACM Press
Full text available: pdf(752.11 KB) Additional Information: full citation, references, citings, index terms

20 ABSTRACTS OF INTEREST
Susanne M. Humphrey, Ben Shneiderman
July 1993 **ACM SIGCHI Bulletin**, Volume 25 Issue 3
Publisher: ACM Press
Full text available: pdf(2.00 MB) Additional Information: full citation, abstract

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21 Concurrent logic restructuring and placement for timing closure

Jinan Lou, Wei Chen, Massoud Pedram

November 1999 **Proceedings of the 1999 IEEE/ACM international conference on Computer-aided design ICCAD '99**

Publisher: IEEE Press

Full text available: pdf(124.02 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, an algorithm for simultaneous logic restructuring and placement is presented. This algorithm first constructs a set of super-cells along the critical paths and then generates the set of non-inferior re-mapping solutions for each supercell. The best mapping and placement solutions for all super-cells are obtained by solving a generalized geometric programming (GGP) problem. The process of identifying and optimizing the critical paths is iterated until timing closure is achieve ...

22 Delay optimal partitioning targeting low power VLSI circuits

Hirendu Vaishnav, Massoud Pedram

December 1995 **Proceedings of the 1995 IEEE/ACM international conference on Computer-aided design ICCAD '95**

Publisher: IEEE Computer Society

Full text available: pdf(301.38 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

Abstract: In this paper, a delay optimal clustering/partitioning algorithm for minimizing the power dissipation of a circuit is proposed. Traditional approaches for delay optimal partitioning are based on Lawler's clustering algorithm that makes no attempt to explore alternative partitioning solutions that have the same delay but better power implementations. Our algorithm provides a formal mechanism which implicitly enumerates alternate partitionings and selects a partitioning that has the same ...

Keywords: VLSI, VLSI circuits, circuit CAD, clustering, delay optimal, integrated logic circuits, logic CAD, logic partitioning, partitioning, power dissipation

23 The role of debugging within software engineering environments

Monika A. F. Müllerburg

March 1983 **ACM SIGSOFT Software Engineering Notes , ACM SIGPLAN Notices , Proceedings of the symposium on High-level debugging SIGSOFT '83,**

Volume 8 , 18 Issue 4 , 8
Publisher: ACM Press
Full text available: pdf(783.98 KB) Additional Information: full citation, abstract, references

Programming environments (PEs) support a single programmer developing small- to medium-scale programs, whereas software development support systems and software engineering environments (SE^2s) support whole project teams, developing Large-scale software. There is no reason to believe that one and only one support system may exist. The usefulness of one or the other depends on the particular situation of software development.Debugging is distinguished from testing and defined not only ...

Keywords: Static debugging, dynamic debugging, programming environment, software development support system, software engineering environment, static analysis, testing, validation

24 Configuration compression for FPGA-based embedded systems
Andreas Dandalis, Viktor K. Prasanna
February 2001 **Proceedings of the 2001 ACM/SIGDA ninth international symposium on Field programmable gate arrays FPGA '01**
Publisher: ACM Press
Full text available: pdf(203.25 KB) Additional Information: full citation, abstract, references, citings, index terms

FPGAs are a promising technology for developing high-performance embedded systems. The density and performance of FPGAs have drastically improved over the past few years. Consequently, the size of the configuration bit-streams has also increased considerably. As a result, the cost-effectiveness of FPGA-based embedded systems is significantly affected by the memory required for storing various FPGA configurations. This paper proposes a novel compression technique that reduces the memory requ ...

25 Improving the efficiency of power simulators by input vector compaction
Chi-Ying Tsui, Radu Marculescu, Diana Marculescu, Massoud Pedram
June 1996 **Proceedings of the 33rd annual conference on Design automation DAC '96**
Publisher: ACM Press
Full text available: pdf(48.70 KB) Additional Information: full citation, references, citings, index terms

26 Frontmatter (TOC, Letter from the chair, Letter from the editor, Letters to the editor, ACM policy and procedures on plagiarism, PASTE abstracts, Calendar of future events, Workshop and conference information)
ACM SIGSOFT Software Engineering Notes staff
January 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 1
Publisher: ACM Press
Full text available: pdf(1.82 MB) Additional Information: full citation, index terms

27 In-network processing: Capturing high-frequency phenomena using a bandwidth-limited sensor network
Ben Greenstein, Christopher Mar, Alex Pesterev, Shahin Farshchi, Eddie Kohler, Jack Judy, Deborah Estrin
October 2006 **Proceedings of the 4th international conference on Embedded networked sensor systems SenSys '06**
Publisher: ACM Press

Full text available: pdf(853.96 KB) Additional Information: full citation, abstract, references, index terms

Small-form-factor, low-power wireless sensors-motes-are convenient to deploy, but lack the bandwidth to capture and transmit raw high-frequency data, such as human voices or neural signals, in real time. Local filtering can help, but we show that the right filter settings depend on changing ambient conditions and network effects such as congestion, which makes them dynamic and unpredictable. Mote collection systems for high-frequency data must support iteratively-tuned, deployment-specific filte ...

Keywords: acoustics, health monitoring, motes, sensor networks, signal processing frameworks

28 Reusable software components

Trudy Levine

July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4

Publisher: ACM Press

Full text available: pdf(2.45 MB) Additional Information: full citation, index terms

29 Dissertations: ABSTRACTS OF INTEREST

Susanne M. Humphrey, Ben Shneiderman

April 1993 **ACM SIGCHI Bulletin**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract

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30 OOPSLA practitioner reports chair's welcome: OO techniques applied to a real-time, embedded, spaceborne application

Alexander T. Murray, Mohammad Shahabuddin

October 2006 **Companion to the 21st ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06**

Publisher: ACM Press

Full text available: pdf(510.33 KB) Additional Information: full citation, abstract, references

Though Object-Oriented Analysis, Design, and languages have become the dominant practices in many, or most, domains of software engineering, concerns about complexity, size, and performance in the embedded, real-time software domain have led to a prevalent view that OO technology is not suitable for the domain. We challenge this view through a successful application of OOA, OOD, and C++ (including STL) in the embedded, real-time flight software in an Earth-orbiting science instrument named Aquar ...

Keywords: C++, embedded, object-oriented analysis, object-oriented design, real-time, unified modeling language, use case

31 Information retrieval 1: Categorizing web search results into meaningful and stable categories using fast-feature techniques

Bill Kules, Jack Kustanowitz, Ben Shneiderman

June 2006 **Proceedings of the 6th ACM/IEEE-CS joint conference on Digital libraries JCDL '06**
Publisher: ACM Press
Full text available: pdf(460.86 KB) Additional Information: full citation, abstract, references, index terms

When search results against digital libraries and web resources have limited metadata, augmenting them with meaningful and stable category information can enable better overviews and support user exploration. This paper proposes six fast-feature techniques that use only features available in the search result list, such as title, snippet, and URL, to categorize results into meaningful categories. They use credible knowledge resources, including a US government organizational hierarchy, a themati ...

Keywords: browsing, categorization, classification, metadata, open directory, taxonomies

32 Software engineering for security: a roadmap
Premkumar T. Devanbu, Stuart Stubblebine
May 2000 **Proceedings of the Conference on The Future of Software Engineering ICSE '00**
Publisher: ACM Press
Full text available: pdf(1.71 MB) Additional Information: full citation, references, citings, index terms

Keywords: copy protection, security, software engineering, water-marking

33 An asynchronous integration and event detection algorithm for simulating multi-agent hybrid systems
Joel M. Esposito, Vijay Kumar
October 2004 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 14 Issue 4
Publisher: ACM Press
Full text available: pdf(299.01 KB) Additional Information: full citation, abstract, references, index terms

A simulation algorithm is presented for multi-agent hybrid systems---systems consisting of many sets of nonsmooth differential equations---such as systems involving multiple rigid bodies, vehicles, or airplanes. The differential equations are partitioned into coupled subsystems, called "agents"; and the conditions which trigger the discontinuities in the derivatives, called "events", may depend on the global state vector. Such systems normally require significant computational resources to si ...

Keywords: Event detection, hybrid systems, multi-agent systems, numerical integration

34 AUTOSPEC: Automatic Motor Specification System
Charles A. Suscheck, Gregory J. Komar
December 1992 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings on Object-oriented programming systems, languages, and applications (Addendum) OOPSLA '92**, Volume 4 Issue 2
Publisher: ACM Press
Full text available: pdf(401.58 KB) Additional Information: full citation, abstract, index terms

The AUTOSPEC system is an automatic motor specification software system that primarily serves to non-interactively produce bill of materials from sales orders. At the core, the system applies Expert System and coordinated Relational Database technology to effect an object-oriented implementation. Computer Aided Software Engineering (CASE) tools

supporting object-oriented analysis (OOA) and an object-oriented design (OOD) approach were used to provide a smooth transition of the software desi ...

35 Conspectus of software engineering environments

Hans-Ludwig Hausen, Monika Müllerburg

March 1981 **Proceedings of the 5th international conference on Software engineering ICSE '81**

Publisher: IEEE Press

Full text available: pdf(984.97 KB) Additional Information: full citation, abstract, references, citings, index terms

Aspects of software engineering environments are discussed, namely motivations, life cycle models, concepts, methods, description means and tools. Some general conclusions about these aspects as well as about the area of software engineering environments are drawn. The paper is based on a study of selected software engineering environments.

36 Language assessment criteria for discrete simulation

James W. Hooper

December 1986 **Proceedings of the 18th conference on Winter simulation WSC '86**

Publisher: ACM Press

Full text available: pdf(583.05 KB) Additional Information: full citation, abstract, references, index terms

Criteria are suggested for use in conducting comparative assessments of languages for use in discrete simulation. The criteria are grouped within the categories of simulation-specific criteria and general criteria. A discussion is provided concerning the significance the various assessment criteria have in modeling and simulation. Suggestions are offered concerning the use of the criteria in a language selection process.

37 Future of simulation: Simulation in the international IMS MISSION project: the IMS MISSION architecture for distributed manufacturing simulation

Charles McLean, Frank Riddick

December 2000 **Proceedings of the 32nd conference on Winter simulation WSC '00**

Publisher: Society for Computer Simulation International

Full text available: pdf(269.47 KB) Additional Information: full citation, abstract, references, citings

This paper presents an overview of a neutral reference architecture for integrating distributed manufacturing simulation systems with each other, with other manufacturing software applications, and with manufacturing data repositories. Other manufacturing software applications include, but are not limited to systems used to: 1) design products, 2) specify processes, 3) engineer manufacturing systems, and 4) manage production. The architecture identifies the software building blocks and interface ...

38 The C++ interface in objectivity

Rakesh Agarwal

December 1994 **ACM SIGPLAN Notices**, Volume 29 Issue 12

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, references, index terms

Computerized databases are essential and inseparable components of a vast majority of today's information systems. Database systems are used at all levels of management, research and production to provide uniform access and control of consistent information. Computer aided software engineering system require extensive database system support. Several industrial and academic research and development projects attempt to provide this support by using conventional database management systems or spec ...

Keywords: inheritance, object-oriented database system, object-oriented programming,

persistence

39 Floorplanning and partitioning: PMP: performance-driven multilevel partitioning by aggregating the preferred signal directions of I/O conduits

Chanseok Hwang, Massoud Pedram

January 2005 **Proceedings of the 2005 conference on Asia South Pacific design automation ASP-DAC '05**

Publisher: ACM Press

Full text available: pdf(340.18 KB) Additional Information: full citation, abstract, references, citings

In this paper, we present a new performance-driven multilevel partitioning algorithm, which calculates the timing gain of a move in the move-based partitioning strategies based on the aggregation of preferred signal directions. In addition, we propose a new timing-aware multilevel clustering algorithm that uses the connection strength of an edge as the primary objective, and the maximum depth or the maximum hop-count of any path containing the edge as a tiebreaker for the clustering step. These ...

40 Object oriented analysis transformation in Ada for real-time systems with resource constraints

Jonathan Preston, Steve Hufnagel

June 1993 **Proceedings of the tenth annual Washington Ada symposium on Ada: Ada's role in software engineering WADAS '93**

Publisher: ACM Press

Full text available: pdf(636.01 KB) Additional Information: full citation, references

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Relevance scale

41 Exploiting style in architectural design environments

David Garlan, Robert Allen, John Ockerbloom

December 1994 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2nd ACM SIGSOFT symposium on Foundations of software engineering SIGSOFT '94**, Volume 19 Issue 5

Publisher: ACM Press

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, citings, index terms

As the design of software architectures emerges as a discipline within software engineering, it will become increasingly important to support architectural description and analysis with tools and environments. In this paper we describe a system for developing architectural design environments that exploit architectural styles to guide software architects in producing specific systems. The primary contributions of this research are: (a) a generic object model for representing architectural design ...

42 Representing the hardware design process by a common data schema

Maria Brielmann, Elisabeth Kupitz

November 1992 **Proceedings of the conference on European design automation EURO-DAC '92**

Publisher: IEEE Computer Society Press

Full text available: pdf(692.23 KB) Additional Information: full citation, references, citings, index terms

43 Manufacturing applications: simuation and control: Emulation with DSOL

Peter H. M. Jacobs, Alexander Verbraeck, William Rengelink

December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**

Publisher: Winter Simulation Conference

Full text available: pdf(484.32 KB) Additional Information: full citation, abstract, references

Manufacturing control systems are extremely hard to design and test. Testing Programmable Logic Controller (PLC) software in an on-line manufacturing setting can be costly, dangerous, and inefficient. The availability of a seamless transition between the real manufacturing process and a simulated manufacturing process on the one hand, and a real PLC and a soft PLC on the other hand might help to solve these problems. Using the Java-based object oriented simulation library DSOL (Distributed Simul ...

44 Information survivability control systems

Kevin Sullivan, John C. Knight, Xing Du, Steve Geist

May 1999 **Proceedings of the 21st international conference on Software engineering ICSE '99**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms

Keywords: architecture economics, control, infrastructure survivability

45 Session 10D: management of computation: Intelligent agents for QoS management

Krunoslav Trzec, Darko Huljenic

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3 AAMAS '02**

Publisher: ACM Press

Full text available: pdf(281.59 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper addresses the structural and behavioral characteristics of multi-agent system (MAS) for Quality of Service (QoS) management using MESSAGE (Methodology for Engineering Systems of Software Agents) modeling language that extends UML (Unified Modeling Language) by contributing agent knowledge level concepts and diagrams with notation for viewing them. Such a multi-agent system is an environment composed of Intelligent Agents (IAs) that ensure guaranteed QoS offered by multi-service commun ...

Keywords: MESSAGE/UML, QoS management, intelligent agents

46 Statistical sampling and regression analysis for RT-level power evaluation

Cheng-Ta Hsieh, Qing Wu, Chih-Shun Ding, Massoud Pedram

January 1997 **Proceedings of the 1996 IEEE/ACM international conference on Computer-aided design ICCAD '96**

Publisher: IEEE Computer Society

Full text available: pdf(274.55 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

In this paper, we propose a statistical power evaluation framework at the RT-level. We first discuss the power macro-modeling formulation, and then propose a simple random sampling technique to alleviate the the overhead of macro-modeling during RTL simulation. Next, we describe a regression estimator to reduce the error of the macro-modeling approach. Experimental results indicate that the execution time of the simple random sampling combined with power macro-modeling is 50 X lower than that of ...

Keywords: RT-Level power evaluation, RTL simulation, power macro-modeling formulation, random sampling, regression analysis, regression estimator, statistical analysis, statistical sampling

47 Product lines & processes: Five years of product line engineering in a small company

Martin Verlage, Thomas Kiesgen

May 2005 **Proceedings of the 27th international conference on Software engineering ICSE '05 , Proceedings of the 27th international conference on Software engineering ICSE '05**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(328.48 KB)

Publisher Site Additional Information: full citation, abstract, references, index terms

In 1999, a new team at MARKET MAKER Software AG began to develop a software product line for managing and displaying stock market data and financial market news. The basic idea was to use web technology in all applications for delivering services to customers. It soon turned out that the company had to change both the processes and the organization. This report summarizes the changes made and the lessons learned over the past five years, when the product line idea was introduced into a small com ...

Keywords: SME, experience report, product line engineering, project management

48 Workshop and conference summaries: Practitioners do good work

L. B. S. Raccoon

March 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(808.46 KB) Additional Information: full citation, abstract, references, citings

I believe that software engineers have done, are doing, and will continue to do good work. Practitioners contribute to the well-being of society and add value to the economy. Working applications enable hundreds of millions of users around the world to productively do things that would otherwise be impossible.I do not claim that software engineers are perfect. Bugs seem to lurk in almost all programs. Reliable schedules and budgets remain elusive. And, software has created whole new slates of pr ...

49 Intelligent user interfaces

William E. Hefley, Dianne Murray

February 1993 **Proceedings of the 1st international conference on Intelligent user interfaces IUI '93**

Publisher: ACM Press

Full text available: pdf(777.77 KB) Additional Information: full citation, references, citings, index terms

Keywords: adaptive intelligent interface systems, intelligent interfaces, intelligent user interfaces, user interface management systems, user models

50 Intelligent user interfaces for correspondence domains (panel session): moving IUIs off the desktop

Christopher A. Miller, Christine Mitchell, Patty Lakinsmith, Reiner Onken, Robin Penner, Valerie Shalin

January 2000 **Proceedings of the 5th international conference on Intelligent user interfaces IUI '00**

Publisher: ACM Press

Full text available: pdf(718.53 KB) Additional Information: full citation, abstract, references, index terms

This paper is about the elicitation of the requirements for an intelligent interface for a software test development environment that will accommodate the physically challenged (PC). This research explores the use of eye-tracking mechanisms and digital manipulative user interfaces that are especially enhanced for the PC. In addition these devices provide assistance for the knowledge elicitation phase for an Intelligent User Interface to such an environment. It was never a stated objective o ...

51 An efficient overloaded implementation of forward mode automatic differentiation in MATLAB

Shaun A. Forth
June 2006 **ACM Transactions on Mathematical Software (TOMS)**, Volume 32 Issue 2
Publisher: ACM Press
Full text available: pdf(449.10 KB) Additional Information: full citation, abstract, references, index terms

The Mad package described here facilitates the evaluation of first derivatives of multidimensional functions that are defined by computer codes written in MATLAB. The underlying algorithm is the well-known forward mode of automatic differentiation implemented via operator overloading on variables of the class fmad. The main distinguishing feature of this MATLAB implementation is the separation of the linear combination of derivative vectors into a separate derivative vector class derivvec. This ...

Keywords: MATLAB, efficient computation of Jacobians

52 Use of an environment classification model
Marvin V. Zelkowitz
May 1993 **Proceedings of the 15th international conference on Software Engineering ICSE '93**
Publisher: IEEE Computer Society Press
Full text available: pdf(913.23 KB) Additional Information: full citation, references, citings

Keywords: environment frameworks, environment mappings, integrated environments, reference models

53 TPASS: dynamic, discrete-event simulation and animation of a Toll Plaza
Robert T. Redding, Andrew J. Junga
December 1992 **Proceedings of the 24th conference on Winter simulation WSC '92**
Publisher: ACM Press
Full text available: pdf(374.41 KB) Additional Information: full citation, references, index terms

54 Military applications: military acquistion and employment modeling: An approach to design and development of decentralized data fusion simulator
Chandresh Mehta, Govindarajan Srimathveeravalli, Thenkurussi Kesavadas
December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**
Publisher: Winter Simulation Conference
Full text available: pdf(547.24 KB) Additional Information: full citation, abstract, references

This paper discusses the ongoing efforts on development of a *Decentralized Data Fusion (DDF)* simulator for analysis and design of a distributed fusion-based tracking system. We have identified the requirements for a DDF simulator and have developed a fully interactive, graphical user interface based scenario generation tool called *SceneGen* (Srimathveeravalli, Subramanian and Kesavadas 2004) for creating battlefield scenarios, and a simulation tool called *VizSim* for running v ...

55 Virtual reality/3D visualization: animation, simulation, and navigation: A scenario generation tool for DDF simulation testbeds
G. Srimathveeravalli, N. Subramanian, T. Kesavadas
December 2004 **Proceedings of the 36th conference on Winter simulation WSC '04**
Publisher: Winter Simulation Conference
Full text available: pdf(481.59 KB) Additional Information: full citation, abstract, references

An interactive tool has been developed for visualizing and creating scaled battlefield based scenarios for use in a simulation testbed to develop and test distributed data fusion and ad-hoc networking algorithms. This paper discuses the design requirements and implementation issues for developing such a tool. Two main design goals were to enable design of complex scenarios in an intuitive and easy fashion, and provide a complete set of decision support utilities. The tool, called *SceneGen* ...

56 Process and products for software reuse in Ada

Sholom Cohen

December 1990 **Proceedings of the conference on TRI-ADA '90 TRI-Ada '90**

Publisher: ACM Press

Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, citings

The large scale application of reuse to support software development is not a new concept. Over twenty years ago, M. D. McIlroy expressed the need for: "... standard catalogues of routines, classified by precision, robustness, time-space performance, size limits, and binding time of parameters." [McIlroy 68] He also provided insight that is still valid into: "... the kinds of variability necessary in software components, ways of producing useful inventories, type ...

57 Architectural mismatch or why it's hard to build systems out of existing parts

David Garlan, Robert Allen, John Ockerbloom

April 1995 **Proceedings of the 17th international conference on Software engineering ICSE '95**

Publisher: ACM Press

Full text available: pdf(835.08 KB) Additional Information: full citation, references, citings, index terms

58 Minimal area merger of finite state machine controllers

Debaditya Mukherjee, Massoud Pedram, Melvin Breuer

November 1992 **Proceedings of the conference on European design automation EURO-DAC '92**

Publisher: IEEE Computer Society Press

Full text available: pdf(769.67 KB) Additional Information: full citation, references, citings, index terms

59 Issue abstracts

ACM SIGMICRO Newsletter staff

September 1991 **ACM SIGMICRO Newsletter**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(688.05 KB) Additional Information: full citation

60 KQML as an agent communication language

Tim Finin, Richard Fritzson, Don McKay, Robin McEntire

November 1994 **Proceedings of the third international conference on Information and knowledge management CIKM '94**

Publisher: ACM Press

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the design of and experimentation with the Knowledge Query and Manipulation Language (KQML), a new language and protocol for exchanging information

and knowledge. This work is part of a larger effort, the ARPA Knowledge Sharing Effort which is aimed at developing techniques and methodology for building large-scale knowledge bases which are sharable and reusable. KQML is both a message format and a message-handling protocol to support run-time knowledge sharing among age ...

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IEEE STD	IEEE Standard

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1. **SIMOO-RT-an object-oriented framework for the development of real-time industrial automat**
   Becker, L.B.; Pereira, C.E.;
   Robotics and Automation, IEEE Transactions on
   Volume 18, Issue 4, Aug. 2002 Page(s):421 - 430
   Digital Object Identifier 10.1109/TRA.2002.802933
   AbstractPlus | References | Full Text: PDF(779 KB) IEEE JNL
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   Huang, Po-Kuan; Ghiasi, Soheil;
   Design, Automation & Test in Europe Conference & Exhibition, 2007. DATE '07
   April 2007 Page(s):1 - 6
   Digital Object Identifier 10.1109/DATE.2007.364386
   AbstractPlus | Full Text: PDF(167 KB) IEEE CNF
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   Sirowy, Scott; Wu, Yonghui; Lonardi, Stefano; Vahid, Frank;
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   April 2007 Page(s):1 - 6
   Digital Object Identifier 10.1109/DATE.2007.364610
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4. **Soft-core Processor Customization using the Design of Experiments Paradigm**
   Sheldon, David; Vahid, Frank; Lonardi, Stefano;
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   Sunder, Christoph; Favre-Bulle, Bernard; Vyatkin, Valeriy;
   Emerging Technologies and Factory Automation, 2006. ETFA '06. IEEE Conference on
   Sept. 2006 Page(s):1133 - 1136
   Digital Object Identifier 10.1109/ETFA.2006.355229

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Banerjee, Subhasis; G, Surendra; Nandy, S. K.;
Design Automation Conference, 2007. ASP-DAC '07. Asia and South Pacific
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Digital Object Identifier 10.1109/ASPDAC.2007.358101
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8. **Fault Dictionary Size Reduction for Million-Gate Large Circuits**
Hong, Yu-Ru; Huang, Juinn-Dar;
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Digital Object Identifier 10.1109/ASPDAC.2007.358092
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Zhong, Yu; Wong, Martin D. F.;
Design Automation Conference, 2007. ASP-DAC '07. Asia and South Pacific
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Digital Object Identifier 10.1109/ASPDAC.2007.358082
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Zhong, Yu; Wong, Martin D. F.;
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Jan. 2007 Page(s):763 - 767
Digital Object Identifier 10.1109/ASPDAC.2007.358081
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Pan, Min; Chu, Chris;
Design Automation Conference, 2007. ASP-DAC '07. Asia and South Pacific
Jan. 2007 Page(s):250 - 255
Digital Object Identifier 10.1109/ASPDAC.2007.357994
AbstractPlus | Full Text: PDF(258 KB) IEEE CNF
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12. **Fast and Accurate OPC for Standard-Cell Layouts**
Pawlowski, David M.; Deng, Liang; Wong, Martin D. F.;
Design Automation Conference, 2007. ASP-DAC '07. Asia and South Pacific
Jan. 2007 Page(s):7 - 12
Digital Object Identifier 10.1109/ASPDAC.2007.357784
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13. **BddCut: Towards Scalable Symbolic Cut Enumeration**
Ling, Andrew C.; Zhu, Jianwen; Brown, Stephen D.;
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Jan. 2007 Page(s):408 - 413
Digital Object Identifier 10.1109/ASPDAC.2007.358020
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14. **A Knowledge-Based Approach for Semantic Service Composition**
Xiaogao Yu; Xiaopeng Yu;
Computational Engineering in Systems Applications, IMACS Multiconference on
Oct. 2006 Page(s):1814 - 1821
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15. **Improving Single-Pass Redundancy Addition and Removal with Inconsistent Assignments**
Wing-Hang Lo; Yu-Liang Wu;
VLSI Design, Automation and Test, 2006 International Symposium on
April 2006 Page(s):1 - 4
Digital Object Identifier 10.1109/VDAT.2006.258153
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16. **Constraint-driven floorplan repair**
Moffitt, M.D.; Ng, A.N.; Markov, I.L.; Pollack, M.E.;
Design Automation Conference, 2006 43rd ACM/IEEE
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17. **The modular TORERO IEC 61499 engineering platform - Eclipse in automation**
Schwab, C.; Tangermann, M.; Lueder, A.;
Emerging Technologies and Factory Automation, 2005. ETFA 2005. 10th IEEE Conference on
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Mingyan Jiang; Zheng Jiang;
Intelligent Control and Automation, 2006. WCICA 2006. The Sixth World Congress on
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Nazarian, S.; Pedram, M.; Gupta, S.K.; Breuer, M.A.;
Design, Automation and Test in Europe, 2006. DATE '06. Proceedings
Volume 2, 6-10 March 2006 Page(s):1 - 6
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20. **QoS measurement issues with DAML-QoS ontology**
Zhou, C.; Chia, L.-T.; Lee, B.-S.;
e-Business Engineering, 2005. ICEBE 2005. IEEE International Conference on
18-21 Oct. 2005 Page(s):395 - 402

Digital Object Identifier 10.1109/ICEBE.2005.100

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21. **Web based methodology for engineering and maintenance of distributed control systems: tl approach**
Schwab, C.; Tangermann, M.; Ferrarini, L.;
Industrial Informatics, 2005. INDIN '05. 2005 3rd IEEE International Conference on
10-12 Aug. 2005 Page(s):32 - 37
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22. **Reconfigurable user interface's to support monitoring and diagnostic capabilities within agi manufacturing system's**
Mellor, E.W.; Harrison, R.; West, A.A.;
Robotics, Automation and Mechatronics, 2004 IEEE Conference on
Volume 1, 1-3 Dec. 2004 Page(s):287 - 291 vol.1

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23. **6th ICSE workshop on component-based software engineering: automated reasoning and pi**
Crnkovic, I.; Schmidt, H.; Stafford, J.; Wallnau, K.;
Software Engineering, 2003. Proceedings. 25th International Conference on
3-10 May 2003 Page(s):775 - 776
Digital Object Identifier 10.1109/ICSE.2003.1201280

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24. **Intelligent field devices in factory automation - modular structures into manufacturing cells**
Schneider, K.;
Emerging Technologies and Factory Automation, 2003. Proceedings. ETFA '03. IEEE Conference
Volume 1, 16-19 Sept. 2003 Page(s):101 - 103 vol.1
Digital Object Identifier 10.1109/ETFA.2003.1247693

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25. **Challenges for Auto Code Generation and Verifcation**
Munier, Patrick;
Automotive Electronics, 2006. The 2nd IEE Conference on
Mar. 2006 Page(s):19 - 20

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IEEE STD	IEEE Standard

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26. Humanoid motion generation system on HRP2-JSK for daily life environment
Okada, K.; Ogura, T.; Haneda, A.; Fujimoto, J.; Gravot, F.; Inaba, M.;
Mechatronics and Automation, 2005 IEEE International Conference
Volume 4, 29 July-1 Aug. 2005 Page(s):1772 - 1777 Vol. 4
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27. Simulation based deadlock analysis for system level designs
Xi Chen; Davare, A.; Hsieh, H.; Sangiovanni-Vincentelli, A.; Watanabe, Y.;
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28. Semantic software engineering approaches for automatic service lookup and integration
Paar, A.; Tichy, W.F.;
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29. Transforming structural model to runtime model of embedded software with real-time const
Kodase, S.; Shige Wang; Shin, K.G.;
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30. Temporal analysis and object-oriented real-time software development: a case study with R
Gaudreau, D.; Freedman, P.;
Real-Time Technology and Applications Symposium, 1996. Proceedings., 1996 IEEE
10-12 June 1996 Page(s):110 - 118
Digital Object Identifier 10.1109/RTTAS.1996.509528
AbstractPlus | Full Text: PDF(600 KB) IEEE CNF
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31. **Performability analysis of formal graphical specifications**
Waedt, K.; Richter, J.; Graf, A.; Mertens, U.;
Computer Performance and Dependability Symposium, 1995. Proceedings., International
24-26 April 1995 Page(s):183 - 192
Digital Object Identifier 10.1109/IPDS.1995.395833
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Result # 1 Relevance:

Automated Abstraction of Source Code for Structured Analysis

1994-12-01 IPCOM000114321D En

An automated, reverse engineering system is disclosed that provides a high level of int Computer Aided Software Engineering (CASE) tool. Specifically, legacy code is transfor abstractions within a Structured Analysis methodology. The abstractions are ...

Result # 2 Relevance:

Generischer DTM fuer GSDML-Dateien

2003-10-25 IPCOM000019464D

In der Fertigungs- und Prozesstechnik werden in vielen Faellen mehrere Geraete unters Geraetetyps von verschiedenen Herstellern miteinander betrieben. Diese Vielfalt erfordi entsprechenden Aufwand bei der Installation und dem Betrieb der Anlage. Eine solche .

Result # 3 Relevance:

Generischer DTM fuer GSD-Dateien

2003-10-25 IPCOM000019539D

In der Fertigungs- und Prozesstechnik werden oft Geraete, die von verschiedenen Hers stammen und verschiedenen Typ aufweisen, zusammen in einer Anlage eingesetzt. Die erfordert entsprechenden Aufwand bei der Installation und dem Betrieb der Anlage. Ein

Result # 4 Relevance:

Einsatz von Skripting zum Engineering, zur Diagnose- und Serviceunt von modularen Maschinen

2005-03-25 IPCOM000056556D

Beim Engineering (hier: Projektieren; Anpassen u. a. der Parameter der System-Softwa Automatisierungssystemen (Gesamtheit von der Hard- und Software) wie beispielsweis Druckmaschine oder Verpackungsanlage entsteht insbesondere bei modularen Maschin

Result # 5 Relevance:

Overview and Principles of Internet Traffic Engineering (RFC3272)

2002-05-01 IPCOM000008132D En

This memo describes the principles of Traffic Engineering (TE) in the Internet. The docu intended to promote better understanding of the issues surrounding traffic engineering networks, and to provide a common basis for the development of traffic ...

Result # 6 Relevance:

SINAMICS S120 - Synchronmotoren 1FT7

2007-06-06 IPCOM000152828D

Projektierungshandbuch

Result # 7 Relevance:

Ressourcen unabhaengige Windows-Controls fuer die Runtime von HI in der Automatisierungstechnik

2006-10-25 IPCOM000141021D

In der Automatisierungstechnik, insbesondere HMI-Geraeten (Human Machine Interfac

die Visualisierung und Steuerung zumeist eine grafische Benutzeroberflaeche eingesetz Umfeld ist oftmals eine mehrsprachige Applikation notwendig. Diese Anforderung ...

Result # 8 Relevance:

Verification and Implementation of Post-Manufacturing Chip Design C

1993-07-01 IPCOM000105241D En

A process for verifying and implementing logic changes on a chip. The process allows a quickly identify a chip logic change which considers both timing and net accessibility be implementing the change.

Result # 9 Relevance:

SINAMICS S120

2006-12-10 IPCOM000142598D

Inbetriebnahmehandbuch

Result # 10 Relevance:

SINAMICS S120 - Synchronmotoren 1FK7

2007-03-25 IPCOM000146894D

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Overview and Principles of Internet Traffic Engineering (RFC3272)

2002-05-01 IPCOM000008132D En

This memo describes the principles of Traffic Engineering (TE) in the Internet. The docu intended to promote better understanding of the issues surrounding traffic engineering networks, and to provide a common basis for the development of traffic ...

Result # 2 Relevance:

sinumerik & sinamics

2006-04-25 IPCOM000135150D

sinumerik & sinamics SIEMENS Automatisierungssysteme fuer Bearbeitungsmaschinen

Result # 3 Relevance:

SINAMICS S120 - Synchronmotoren 1FT7

2007-06-06 IPCOM000152828D

Projektierungshandbuch

Result # 4 Relevance:

SINAMICS S120

2006-12-10 IPCOM000142598D

Inbetriebnahmehandbuch

Result # 5 Relevance:

SINAMICS S120 - Synchronmotoren 1FK7

2007-03-25 IPCOM000146894D

Projektierungshandbuch

Result # 6 Relevance:

SINAMICS S120 - Gerätehandbuch Control Units und ergänzende Systemkomponenten

2006-12-10 IPCOM000142650D

Gerätehandbuch

Result # 7 Relevance:

SINAMICS S120 - Gerätehandbuch Leistungsteile - Booksize

2006-12-10 IPCOM000142673D

Geraetehandbuch

Result # 8 Relevance:

SINAMICS S120 - Geraetehandbuch Leistungsteile - Booksize Cold-Pla

2006-12-10 IPCOM000142674D

Geraetehandbuch

Result # 9 Relevance:

SINAMICS S120 - Leistungsteile Chassis
2006-12-10 IPCOM000142654D
Gerätehandbuch

Result # 10 Relevance:

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2006-12-10 IPCOM000142657D
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Result # 1 Relevance:

Proceedings from the Second Workshop on Large-Grained Parallelism

1987-10-14 IPCOM000148172D En

Carnegie Mellon University These are the proceedings of the Second Workshop on Large Parallelisnl held October 11-14, 1987, in Hidden Valley, Pennsylvania. The workshop w by the Software Engineering Institute and the Department of Computer Science, ...

Result # 2 Relevance:

sinumerik & sinamics

2006-04-25 IPCOM000135150D

sinumerik & sinamics SIEMENS Automatisierungssysteme fuer Bearbeitungsmaschinen

Result # 3 Relevance:

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Result # 4 Relevance:

SINAMICS S120 - Synchronmotoren 1FK7

2007-03-25 IPCOM000146894D

Projektierungshandbuch

Result # 5 Relevance:

Formal Techniques for Protocol Specification and Verification

1979-09-01 IPCOM000131444D En

This article describes some of the more formal techniques which have been brought to requirement. We focus on two key problem areas -- protocol specification and verificati correctness. Methods for analyzing the efficiency of protocols have been ...

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Distributed Objects for Concurrent Engineering

Book Series	Lecture Notes in Computer Science
Volume	Volume 1675/1999
Book	System Configuration Management: 9th International Symposium, SCM-9, Toulouse, France, September 1999. Proceedings
Author	Jacky Estublier
Subject Collection	Computer Science
Abstract	...simultaneously in multiple copies, locations and formats. Concurrent engineering support means the definition, control and automation of all these copies and how cooperative work...
Text	PDF (143 kb)

2. Book Chapter — Add to marked items

On Business Rules Automation : The BR-Centric IS Development Framework

Category	Information Systems Development
DOI	10.1007/11547686_26
Book Series	Lecture Notes in Computer Science
Volume	Volume 3631/2005
Book	Advances in Databases and Information Systems
Authors	Irma Valatkaite and Olegas Vasilecas
Subject Collection	Computer Science
Abstract	...approach in information systems (IS) engineering responds to the need

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Text	PDF (845 kb)

3. Journal Article — Add to marked items

Mechanization and automation of the management of production at chemical engineering plants

Category	Organization and Economics of Production
DOI	10.1007/BF01144994
Journal	Chemical and Petroleum Engineering
Issue	Volume 8, Number 2 / February, 1972
Author	A. P. Chernov
Subject Collection	Chemistry and Materials Science
Text	PDF (451 kb)
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4. Journal Article — Add to marked items

A process-centric engineering Web services framework

Category	Original Article
DOI	10.1007/s00170-004-2365-3
Journal	The International Journal of Advanced Manufacturing Technology
Issue	Volume 26, Numbers 9-10 / October, 2005
Authors	Jae Yeol Lee, Sunjae Lee, Kwangsoo Kim and Hyun Kim
Subject Collection	Engineering
Abstract	...are emerging as a viable alternative to the traditional design and engineering process automation. Existing approaches have limitations in supporting long-running engineering transactions, automatic...
Text	PDF (979 kb)
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5. Book Chapter — Add to marked items

Collaborative desktop engineering

Category	Long Papers
DOI	10.1007/BFb0030444
Book Series	Lecture Notes in Computer Science
Volume	Volume 1454/1998

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Author

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R. Singh
Markus Kle
Hartmut El
Y. Murakar
V. A. Vikto
L. Vega

Book	Artificial Intelligence in Structural Engineering	V. S. Serkc A. N. Marcl
Authors	Edward L. Divita, John C. Kunz and Martin A. Fischer	
Subject Collection	Computer Science	
Abstract	...support multidisciplinary analyses of complex engineering problems. Our approach to automating...our approach to integration and automation as exemplified by the Facility...	
Text	PDF (1,456 kb)	

6. Book Chapter — Add to marked items

Product Genetic Engineering

DOI	10.1007/1-84628-210-1_10
Book Series	Springer Series in Advanced Manufacturing
Book	Advances in Design
Part	Part III
Authors	Kezheng Huang, Hongwu Chen, Yandong Wang, Zhengjun Song and Liangmin Lv
Subject Collection	Engineering
Abstract	...product design with wide impact on current design research and engineering practice. Design automation aims to increase the efficiency and quality of design work...
Text	PDF (219 kb)

7. Journal Article — Add to marked items

Automation in the construction industry

DOI	10.1007/BF01198144
Journal	Engineering with Computers
Issue	Volume 3, Number 1 / March, 1987
Author	Kenneth F. Reinschmidt
Subject Collection	Computer Science
Abstract	...construction industry. The major components of an automation strategy, as considered in this paper, are computer-aided engineering and design (CAE/CAD), computerized data bases...
Text	PDF (1,226 kb)
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8. Book Chapter — Add to marked items

An Agent-Oriented Approach to Industrial Automation Systems

Book Series	Lecture Notes in Computer Science
Volume	Volume 2592/2003
Book	Agent Technologies, Infrastructures, Tools, and Applications for E-Services: NODe 2002 Agent-Related Workshops, Erfurt, Germany, October 7-10, 2002. Revised Papers
Author	Thomas Wagner
Subject Collection	Computer Science
Abstract	...agents within industrial automation systems from the point of view of automation engineering. To this end, the characteristic structures of automation systems are analyzed...
Text	PDF (325 kb)

9. Journal Article — Add to marked items

Reconfigurable modular automation systems for automotive power-train manufacture

DOI	10.1007/s10696-006-9008-y
Journal	Journal of Flexible Service and Manufacturing
Issue	Volume 18, Number 3 / September, 2006
Authors	R. Harrison, A. W. Colombo, A. A. West and S. M. Lee
Subject Collection	Engineering
Abstract	...modular automation systems for both engine assembly and machining applications. The implementation of an assembly system is featured in this paper. An engineering environment...
Text	PDF (464 kb)
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10. Journal Article — Add to marked items

Cognitive Automation for Tactical Mission Management: Concept and Prototype Evaluation in Flight Simulator Trials

Category	Original Article
DOI	10.1007/s101110200014
Journal	Cognition, Technology & Work

Issue	Volume 4, Number 3 / September, 2002
Author	A. Schulte
Subject Collection	Computer Science
Abstract	...functional concept is derived from general considerations of human performance and cognitive engineering. A system built according to these human-centred design principles will be...
Text	PDF (698 kb)
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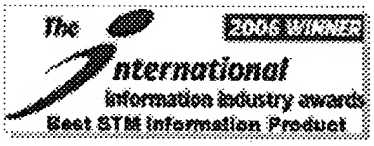

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1. Book Chapter — Add to marked items

Peridot: Towards Automated Runtime Detection of Performance Bottlenecks

DOI	10.1007/3-540-28555-5_17
Book	High Performance Computing in Science and Engineering, Garching 2004
Part	Part II
Authors	Karl Fürlinger and Michael Gerndt
Subject Collection	Mathematics and Statistics
Abstract	...of a system for the automation of the performance analysis process...detect performance problems automatically at runtime and in a distributed fashion...
Text	PDF (479 kb)

2. Book Chapter — Add to marked items

A Lightweight Dynamic Application Monitor for SMP Clusters

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High Performance Computi Science and Engineering, M 2004 (1)
Lecture Notes in Computer Science (1)

Author

Karl Fürlinger
Michael Gerndt

DOI	10.1007/3-540-26657-7_2
Book	High Performance Computing in Science and Engineering , Munich 2004
Part	Part I
Authors	Karl Fürlinger and Michael Gerndt
Subject Collection	Mathematics and Statistics
Abstract	...distribution, on-line processing and automation . In this paper we present...and an active component called runtime information producer (RIP) which provides...
Text	PDF (186 kb)

3. Book Chapter — Add to marked items

Towards a Knowledge-Based Approach to Semantic Service Composition

Category	Semantic Web Services
Book Series	Lecture Notes in Computer Science
Volume	Volume 2870/2003
Book	The SemanticWeb - ISWC 2003
Authors	Liming Chen, Nigel R. Shadbolt, Carole Goble, Feng Tao, Simon J. Cox, Colin Puleston and P.R. Smart
Subject Collection	Computer Science
Abstract	...ontological and knowledge engineering initiatives. In this...that

		supports the runtime recommendation of a...basis for full automation of service composition...
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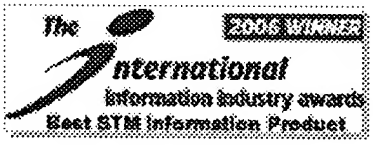

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1. Book Chapter — Add to marked items

Engineering large parallel functional programs

DOI	10.1007/BFb0055431
Book Series	Lecture Notes in Computer Science
Volume	Volume 1467/1998
Book	Implementation of Functional Languages
Authors	Hans-Wolfgang Loidl and Phil Trinder
Subject Collection	Computer Science
Abstract	...of an integrated engineering environment. In the process we have refined components of this environment like the simulator, the runtime system, and the profiling...
Text	PDF (1,263 kb)

2. Book Chapter — Add to marked items

Engineering Runtime Requirements-Monitoring Systems Using MDA Technologies

DOI	10.1007/11580850_17
Book Series	Lecture Notes in Computer Science
Volume	Volume 3705/2005
Book	Trustworthy Global Computing
Authors	James Skene and Wolfgang Emmerich
Subject Collection	Computer Science
Abstract	...can be used to implement runtime requirements monitoring of systems by modelling the required behaviour...

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3. Journal Article — Add to marked items

Investigating Autonomic Runtime Management Strategies for SAMR Applications

DOI	10.1007/s10766-005-3589-z
Journal	International Journal of Parallel Programming
Issue	Volume 33, Numbers 2-3 / June, 2005
Authors	Sumir Chandra, Manish Parashar, Jingmei Yang, Yeliang Zhang and Salim Hariri
Subject Collection	Computer Science
Abstract	...realistic scientific and engineering simulations of complex...paper presents application/ system sensitive reactive and...the GridARM autonomic runtime management framework. An...
Text	PDF (270 kb)
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4. Journal Article — Add to marked items

Runtime vs. Manual Data Distribution for Architecture-Agnostic Shared-Memory Programming Models

DOI	10.1023/A:1019899812171
Journal	International Journal of Parallel Programming
Issue	Volume 30, Number 4 / August, 2002
Authors	Dimitrios S. Nikolopoulos, Eduard Ayguadé and Constantine D. Polychronopoulos
Subject Collection	Computer Science
Abstract	...in the operating system, runtime algorithms based on...but require careful engineering and tuned implementations...
Text	PDF (507 kb)
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5. Book Chapter — Add to marked items

Using Architectural Models at Runtime : Research Challenges

Category	Position Papers

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Author

Karl Fürlinge
Michael Gerz
Phil Trinder
Manish Para
Klaus Havel
Salim Hariri
Jingmei Yan
Yeliang Zha
Sumir Chan
Hans-Wolfga

Book Series	Lecture Notes in Computer Science
Volume	Volume 3047/2004
Book	Software Architecture
Authors	David Garlan and Bradley Schmerl
Subject Collection	Computer Science
Abstract	...software engineering is the development of a well-defined software architectural model. Such a model describes the runtime manifestation of a software system in...
Text	PDF (159 kb)

6. Book Chapter — Add to marked items

Automatic parallelization of the AVL FIRE benchmark for a distributed-memory system

DOI	10.1007/3-540-60902-4_7
Book Series	Lecture Notes in Computer Science
Volume	Volume 1041/1996
Book	Applied Parallel Computing Computations in Physics, Chemistry and Engineering Science
Authors	Peter Brezany, Viera Sipkova, Barbara Chapman and Robert Greimel
Subject Collection	Computer Science
Abstract	...aerospace and automotive engineering, often require enormous...dependent on some runtime data, therefore runtime...Vienna Fortran Compilation System. We have examined...
Text	PDF (579 kb)

7. Book Chapter — Add to marked items

Optimizing Content Management System Pipelines

Separation and Merging of Concerns

Book Series	Lecture Notes in Computer Science
Volume	Volume 2487/2002
Book	Generative Programming and Component Engineering : ACM SIGPLAN/SIGSOFT Conference, GPCE 2002, Pittsburgh, PA, USA, October 6-8, 2002. Proceedings
Authors	Markus Noga and Florian

	Krüper
Subject Collection	Computer Science
Abstract	Content management systems support the dissemination...documents. In software engineering terms, they separate...document deployment. Their runtime processing pipeline is...
Text	PDF (193 kb)

8. Book Chapter — Add to marked items

Instrumentation of Synchronous Reactive Systems for Performance Analysis: A Case Study

Book Series	Lecture Notes in Computer Science
Volume	Volume 1469/1998
Book	Computer Performance Evaluation: 10th International Conference, Tools'98, Palma de Mallorca, Spain, September 1998. Proceedings
Authors	Alberto Valderruten, Javier Mosquera and Víctor M. Gulías
Subject Collection	Computer Science
Abstract	...a multithreaded runtime system for a distributed functional programming language. Performance metrics are computed and validated with experimental results. Keywords: Performance Engineering, Synchronous Reactive...
Text	PDF (214 kb)

9. Book Chapter — Add to marked items

A Model for Developing Component-Based and Aspect-Oriented Systems

DOI	10.1007/11821946_17
Book Series	Lecture Notes in Computer Science
Volume	Volume 4089/2006
Book	Software Composition
Authors	Nicolas Pessemier, Lionel Seinturier, Thierry Coupaye and Laurence Duchien
Subject Collection	Computer Science
Abstract	...Component- Based Software Engineering

	(CBSE) offer solutions...decomposes a software system into regular components...as first-class runtime entities. This clarifies...
Text	PDF (1,973 kb)

10. Journal Article — Add to marked items

An Approach for Recovering Distributed System Architectures

DOI	10.1023/A:1011217720860
Journal	Automated Software Engineering
Issue	Volume 8, Numbers 3-4 / August, 2001
Authors	Nabor C. Mendonça and Jeff Kramer
Subject Collection	Computer Science
Abstract	...runtime abstractions (clients, servers, interaction protocols, etc.) that are typical to the design of distributed software systems. This paper presents an exploratory reverse engineering...
Text	PDF (6 kb)
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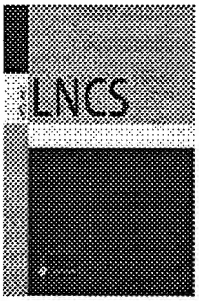

FST TCS 2000: Foundations of Software Technology and Theoretical Computer Science: 20th Conference, New Delhi, India, December 2000. Proceedings

Book Series	Lecture Notes in Computer Science
Publisher	Springer Berlin / Heidelberg
ISSN	0302-9743 (Print) 1611-3349 (Online)
Volume	Volume 1974/2000
Copyright	2000
Subject Collection	Computer Science
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Author E. Allen Emerson
Subject Collection Computer Science
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Authors Mary Fernandez, Jerome Simeon and Philip Wadler
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Author Bernard Chazelle
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Authors David Basin, Manuel Clavel and José Meseguer
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Frequency Assignment in Mobile Phone 81

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Author Martin Grötschel
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Authors Peter Buneman, Sanjeev Khanna and Wang-Chiew Tan
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Author Toshihiro Fujito
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Author Igor Walukiewicz
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DOCUMENT-IDENTIFIER: US 20010037161 A1

TITLE: Method for controlling technical processes

---------- KWIC ---------

Summary of Invention Paragraph - BSTX (6):
[0004] The reference WO 91 19237 and a document by Hilding Elmqvist entitled: "A Uniform Architecture For Distributed **Automation**" (Advances in Instrumentation and Control, U.S., Instrument Society of America, Research Triangle Park, Vol. 46,

Summary of Invention Paragraph - BSTX (13):
[0010] The control program comprises software objects with addressable interfaces. For the project planning and programming of an actual software application, the project engineer/programmer chooses from a set of predefined basic object types, the basic object types required for the respective **automation** project. The selection of a basic object type corresponds within the framework of the project planning/programming to the instantiation of the corresponding basic object type. The respective instance of a basic object type is a basic object. The basic objects can be parameterized and interconnected by means of the interfaces of the basic objects, so that the basic objects respectively selected, as corresponding to the actual requirements, may be interconnected via their interfaces to form a control program and consequently finally form a software application for actual control functions.

Summary of Invention Paragraph - BSTX (20):
[0017] The project planning/programming advantageously takes place on an **engineering system,** while the software application is executed on a **runtime system**. The project planning or programming is consequently independent of the execution of the respective actual software application.

Brief Description of Drawings Paragraph - DRTX (5):
[0022] FIG. 3 illustrates a schematic representation of the development environment for the project planning or programming of the MC application on an **engineering system** and for the running of the planned/programmed MC application on a **runtime system** in accordance with an exemplary embodiment of the present invention.

Detail Description Paragraph - DETX (2):
[0026] Each **automation** project is based on a range of hardware modules. In the case of a movement control system, which is used throughout this description for purposes of simplicity, there are single-axis, three-axes or four-axes modules with corresponding drives.

Detail Description Paragraph - DETX (4):

[0028] Referring to the drawings, FIG. 1 illustrates a movement control software system, hereinafter "MC software system," comprising at least one **engineering system** ES (offline) and a **runtime system** RS (online). The ES is used by the user to create a movement control application, referred to hereinafter as "MC application" MCA. The RS executes the MCA. The creation of a MCA involves the system configuration, the creation of the user programs at the high-level language level and the transfer of this information into a form which can be executed internally in the RS (executable). The RS executes the executable.

Detail Description Paragraph - DETX (24):

[0048] Interfaces in the **runtime system** RS (RS interfaces) are fixed in the movement control **runtime system** directly. The interfaces are managed and addressed in the **engineering system** ES via type codes, so that their interconnection is possible.

Detail Description Paragraph - DETX (42):

[0066] In the **engineering system** ES, an actual control solution corresponding to the respective requirements of the client is configured and programmed using corresponding tools VEW, KON, PRG (management, configuration, programming), the commissioning being supported by further tools INB, MON, DEB (commissioning, monitoring, debugging). The execution of an actually planned software structure with the associated user program takes place in the **runtime system** RS.

Detail Description Paragraph - DETX (43):

[0067] The **engineering system** ES accordingly permits the handling of a movement control application (MC application) MCA in engineering terms and, in addition, also the representation of the **runtime system** RS during the engineering (from project planning through to commissioning).

Detail Description Paragraph - DETX (44):

[0068] For this purpose, the **engineering system** ES has access to an image of all the basic objects BO that are executable in the **runtime system** RS. Accordingly, at least the aforementioned feedback controller objects FCO, command variable objects CVO, program processing objects PPO, driver objects DRO and system manager objects SMO are provided as basic object classes.

Detail Description Paragraph - DETX (45):

[0069] Both in the **engineering system** ES and in the **runtime system** RS there exists, via the hardware HW-(programming unit or personal computer HW1 for the **engineering system** ES, control hardware HW2 for the **runtime system** RS), a complete **runtime system** with an operating system BS, tools for system management and basic objects BO.

Detail Description Paragraph - DETX (47):

[0071] For the logical sequences, movement operations or feedback control actions, basic elements or basic functions are available. The basic elements

are in this case connectable components, the basic objects BO, which represent the basic components for **automation** tasks with in each case uniform interfaces. The basic functions are available within the framework of programmable functions, it being possible to use a basic set of commands for logic, movement (single axis, loose and close master-slave coupling, geometry network) and feedback control. The structure permits free programmability and flexible adaptation to the circumstances of the respective **automation** project by instantiating and connecting the respective objects.

Detail Description Paragraph - DETX (48):

[0072] The overall system comprises a combination of a **runtime system,** with a control core as a distributable control operating system, and an **engineering system,** which permits the graphic programming of the **automation** project via a corresponding interface.

Detail Description Paragraph - DETX (49):

[0073] This structure allows for a natural approach to the **automation** of technical processes, that is a step-by-step approach which begins with the definition of the respective functions, from which logical dependencies of individual functions or groups of functions arise or can be derived, and only becomes concerned with actual movement operations and feedback control actions possibly required for them when it pays attention to detailed considerations.

Claims Text - CLTX (6):

6. The method as claimed in claims 1, wherein said project planning is implemented on an **engineering system** and wherein said software application is executed on a **runtime system**.

US006757568B2

(12) **United States Patent**
Birzer et al.

(10) **Patent No.: US 6,757,568 B2**
(45) **Date of Patent: Jun. 29, 2004**

(54) **AUTOMATION SYSTEM FOR MERGING AUTOMATION COMPONENTS**

(75) Inventors: **Johannes Birzer**, Stulln (DE); **Martin Kiesel**, Poxdorf (DE); **Georg Trummer**, Erlangen (DE); **Peter Wagner**, Hersbruck (DE)

(73) Assignee: **Siemens Aktiengesellschaft**, Munich (DE)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 116 days.

(21) Appl. No.: **09/886,020**

(22) Filed: **Jun. 21, 2001**

(65) **Prior Publication Data**

US 2002/0082720 A1 Jun. 27, 2002

(30) **Foreign Application Priority Data**

Dec. 27, 2000 (DE) 100 65 401

(51) **Int. Cl.**[7] **G05B 11/01**

(52) **U.S. Cl.** **700/18**; 700/19; 700/20; 700/56; 700/61; 700/96

(58) **Field of Search** 700/1, 9, 18, 19, 700/20, 56, 83, 96, 61

(56) **References Cited**

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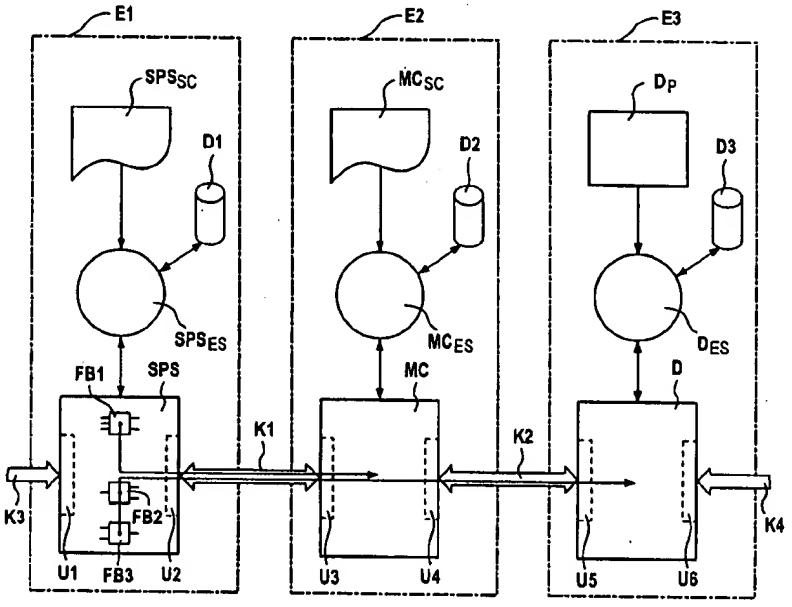
Primary Examiner—Ramesh Patel
Assistant Examiner—Crystal J Barnes
(74) *Attorney, Agent, or Firm*—Baker Botts L.L.P.

(57) **ABSTRACT**

The present invention relates to an automation system in which a functionality of at least two components from a programmable logic controller which can be regulated as required and/or from a drive controller which regulates rotation speed and/or position, and/or from a motion controller which regulates complex operations is integrated. The integrated controller constructed in this way can additionally have a single processor equipped with every functionality, further specific interfaces incorporation of engineering system and runtime system (RS) into the integrated controller, a web server functionality, a project data configuration using a single control action and an integrated, extensive data management unit (DM).

12 Claims, 14 Drawing Sheets



US006600964B2

(12) **United States Patent**
Hess et al.

(10) **Patent No.: US 6,600,964 B2**
(45) **Date of Patent: Jul. 29, 2003**

(54) **METHOD FOR CONTROLLING TECHNICAL PROCESSES**

(75) Inventors: **Karl Hess**, Lichtenau (DE); **Tino Heber**, Freiberg (DE); **Wolfgang Horn**, Hohenstein-Ernstthal (DE); **Steffen Kirste**, Chemnitz (DE); **Norbert Kosel**, Chemnitz (DE)

(73) Assignee: **Siemens Aktiengesellschaft** (DE)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 106 days.

(21) Appl. No.: **09/860,072**

(22) Filed: **May 17, 2001**

(65) **Prior Publication Data**

US 2001/0037161 A1 Nov. 1, 2001

Related U.S. Application Data

(63) Continuation of application No. PCT/DE99/03550, filed on Nov. 5, 1999.

(30) **Foreign Application Priority Data**

Nov. 18, 1998 (DE) 198 53 205

(51) **Int. Cl.**[7] **G06F 19/00**

(52) **U.S. Cl.** **700/97**; 700/86; 700/103

(58) **Field of Search** 700/97, 103, 104, 700/26, 86, 181; 717/101, 102, 104, 120, 121

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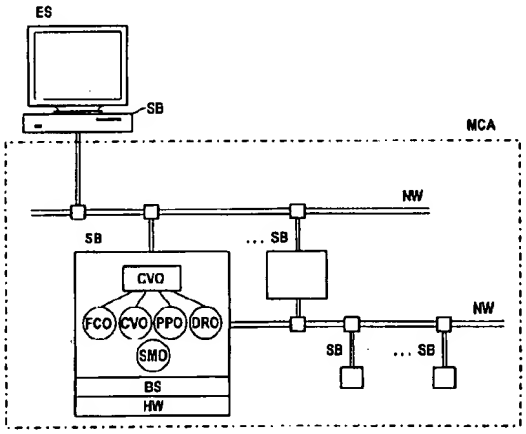
Primary Examiner—Paul P. Gordon
(74) *Attorney, Agent, or Firm*—Baker Botts LLP

(57) **ABSTRACT**

Due to the diversity of the requirements to be met for controlling the movement of production machines, a system and method based on a range of hardware modules, which are provided with adequate computing capacity, a real-time operating system and specific basic functionality, a network (for example Profibus) for constructing a decentralized system with distributed control functionality and also operating and monitoring units with planned interfaces is disclosed. The invention comprises a configurable, distributable and programmable control software system for individually adapting the control solution to the client's requirements, with which the planned control solution is distributed among hardware modules and in which an engineering system used for management, configuration, programming, monitoring, debugging and commissioning.

8 Claims, 6 Drawing Sheets